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EPAct Test Programs in ASD
2nd Bi-Weekly Report
February 26, 2008

1. Light Duty Gas Exhaust Fuels

Contractor: SwRI, EP-C-07-028, WA 0-1
WAM: Connie Hart
Alt. WAM: Rafal Sobotowski
Other team members: Carl Scarbro, Mike Christianson, Tony Fernandez, Carl Fulper, Aron Butler
Budget: \$4M, plus \$2M in collaboration with NREL

Time Line

- Testing is scheduled to begin first week in April
- Phase 1 and half of Phase 2 finished by the end of June
- Phase 3 will be finished May 2009

Program Status:

- Issues with vehicle leases resolved last week. All vehicles procured. Last few to arrive this week.
- Fuels for Phase 1 and 2 appear on track for delivery by the start of testing
 - All three fuels have been successfully hand blended by the fuel vender (Haltermann)
- New fuel matrix for Phase 3 fuels approved last Friday to expand T50 levels down to 150 deg and to 10psi.
 - Coordinated with Oils, Autos and NREL
 - Fuels for Phase 3 on track for delivery by mid-June.
- Have backup equipment in place for Phase 1 while waiting for Horiba instrumentation for continuous methane and NO2.
 - Horiba's equipment will be installed during downtime between Phases 1 and 2 while preparing for 50 deg testing.
- The humidity issue has been resolved through communication with Nigel Gale.

2. Oil Study

Contractor: NVFEL
Project lead: Mike Christianson, Rafal Sobotowski
Budget:

Time Line

- Estimated duration of pilot: 15 weeks (May 11)

Program Status:

- Mile 0 tests complete
- Moving ahead with mileage accumulation and mile 500 tests this week

3. PM Speciation

Contractor: NVFEL

Project lead: Mike Christianson, Marion Hoyer

Other team members: Carl Scarbro, Rafal Sobotowski, Joe McDonald

Budget: \$265K

Time Line: Late 2008

Program Status:

- Working with LOD to find solution to their shortfall of FTE for this project.
- Costing out alternative of testing at ORD:
 - Would have to wait to start testing until August.

4. Nonroad Exhaust Program

Contractor: Carnot Intertek

WAM: Carl Scarbro

Alt. WAM: Rafal Sobotowski

Project Overview:

Timeline

- The original program was to be completed last year
- Should begin by April 1st and finish in August of this year

Program Status

- Carnot is ready to go. It looks as though they will be ready to start the test program in the beginning of April.
- 8 Engines are at Carnot now.
 - A pair of commercial grade Class IV engines (with out catalyst are to be provided by April from Echo and a pair of residential Class IV engines (with catalysts) will be obtained for testing.
 - There will be a total of 12 engines to be tested
- Correlation testing is completed at Environment Canada on certification fuel on a quality Class 2 engine. The emission test results on the seven tests have good precision. The engine is to be shipped to Carnot this week.
- Test fuel order is now on schedule due to the selection of the two of the EPA Act vehicle fuels instead of the original fuels selected two years ago

- Decided to use the EPA Fuels 17 and 18 with 18 having its RVP bumped up by 1 psi to save time on this and the EPA program (Paul M's idea and Carl's epiphany). Dropped the third fuel entirely.
- Rafal Sobotowski had a site visit with Carnot last week. He indicated that Carnot appears to have the technical expertise and facilities specified in their proposal and sees no immediate obstacles in carrying out the test program.

5. Evap Testing

Contractor: SwRI, EP-C-07-028, WA 0-4
 WAM: Connie Hart
 Alt. WAM: Dave Brzezinski
 Other team members: Carl Scarbro, Tony Fernandez
 Budget: \$600K

Time Line: Testing from June 2008 thru June 2009

Program Status:

- Working out vehicle and fuel procurement issues, should go to contracts week of 3/17/08

6. Determine Percent of High Evaporative Vehicles in Fleet

Contractor: ERG, EP-C-06-080, WA 1-2
 WAM: Connie Hart
 Alt. WAM: Dave Brzezinski
 Other team members: Carl Scarbro, Carl Fulper, Tony Fernandez, Jim Warila
 Budget: \$900K

Time Line

- ICR clock started with Federal Register notice 2/14/08
- SOW package went to Cincinnati 2/22/08
- Approval of Work Plan by March 24
- Contractor to supply supporting documents for ICR submission March 31.
- Another 30 day comment period for ICR, roughly month of May.
- Goal is to have ICR in place by mid-June for recruitment and pilot field work to begin. Will need our management support for OMB to give us priority.
- Finalize test procedure for larger program by August 22 so recruitment can begin for field work in Sept and October
- Compile data and draft report by early December of 2008

Program Status:

- Package went to contracts last week, should be in contractor's hands by today.
- Sent SOW to CRC, they have agreed to not cause delays in our process. They may add some funding which would be helpful if overruns.

